

Telcordia Technologies Overview

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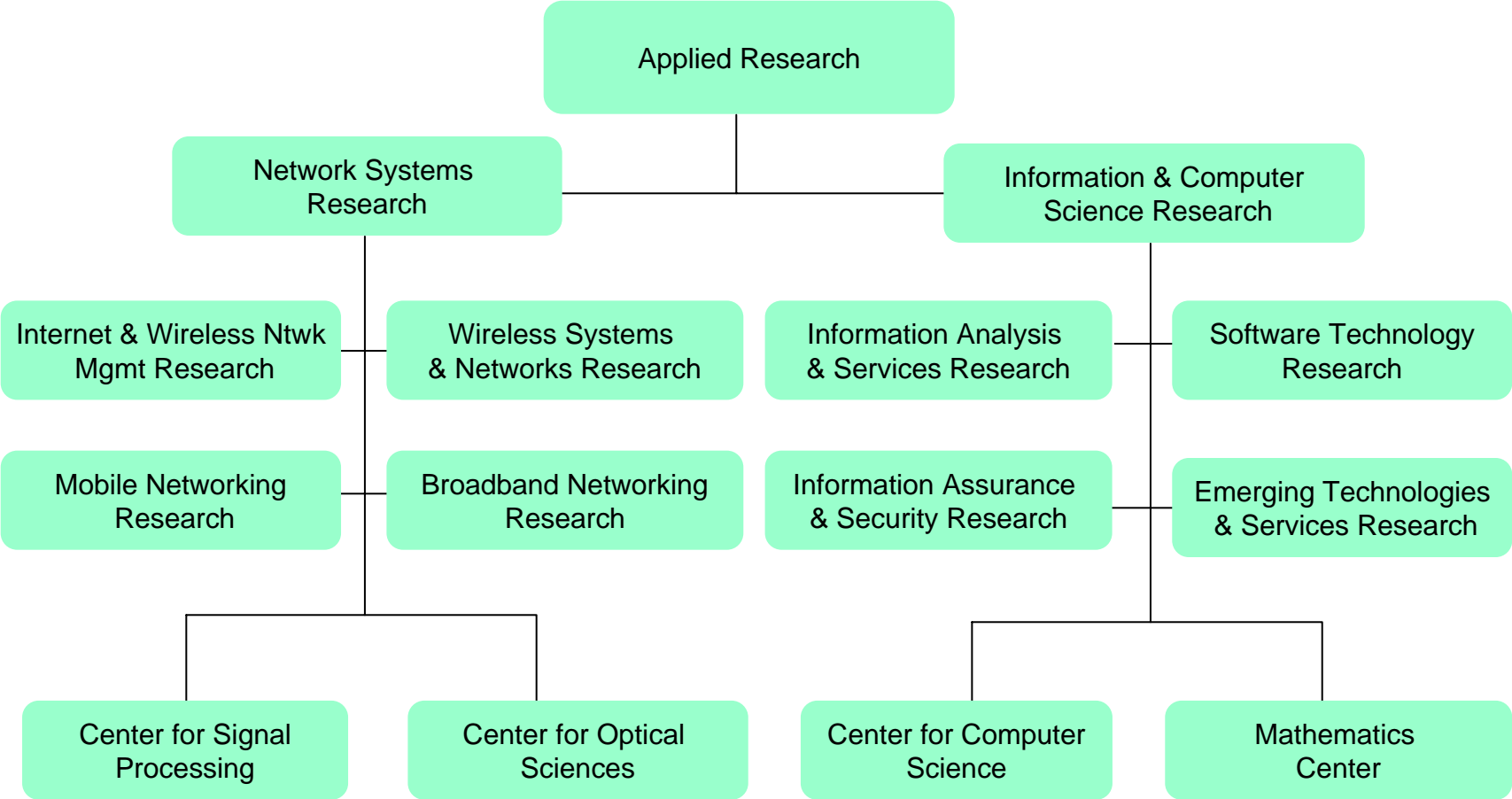
Facts about Telcordia

- Formerly Bellcore, formed from Bell Laboratories at AT&T's divestiture in 1984. Was R&D organization for the Regional Bell Operating Companies
- Acquired by SAIC in 1997 and renamed Telcordia
- Acquired by Warburg Pincus and Providence Equity Partners in 2005
- Annual revenues ~ \$1 billion (US\$). ~ 3,000 employees worldwide
- 110+ software products. Carry 80% of U.S. telephony traffic. 140 million lines of code
- Businesses: Applied Research, Network Systems, OSS, Professional Services
- Markets: Wireline, Wireless, Cable, Enterprise, Government

Telcordia Applied Research

- Research organization of 230 researchers in computer science and networking
 - Laboratories in New Jersey, Maryland and Texas
 - 50% have PhDs
- Partner with leading academic institutions e.g., Cornell, MIT, SUNY-Stony Brook, SUNY-Buffalo, Princeton, Johns Hopkins, CMU, UC Davis
- More than 1200 patents worldwide
- Major contributor to standards and industry forums
- Established government program with agencies such as DARPA, Army, ARDA, ARL, DISA, CERDEC, HS-ARPA

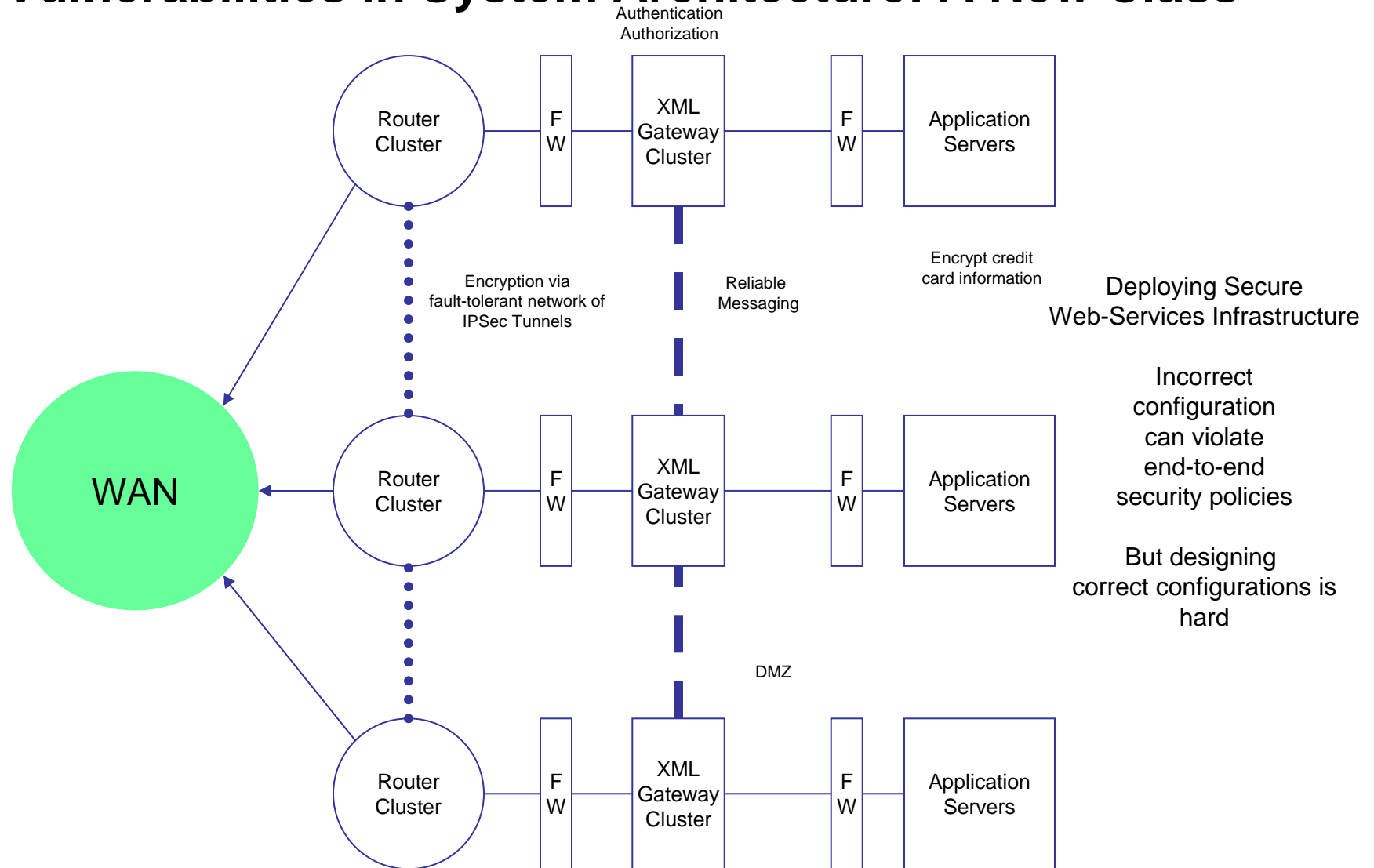
Applied Research Organization



AC Relevant Projects

- Insider attack mitigation: DARPA (SRS)
- Traceback: ARDA
- Two security-related projects: DARPA
- Two network-related projects: DARPA
- Two large systems integration contracts: Army FCS
- One large systems integration contract: Army Marconi
- Cooperative Intrusion Detection: CERDEC
- Dynamic Coalitions Policy Infrastructure: DARPA
- Smart Firewalls: DARPA
- Organically Assured Survivable Information Systems: DARPA
- Next-Generation Defense Collaboration Toolsuite: DISA
- Automated Vulnerability Analysis of Critical Computing Infrastructure: HS-ARPA
- C4 Architectural Toolset: DARPA

Vulnerabilities in System Architecture: A New Class

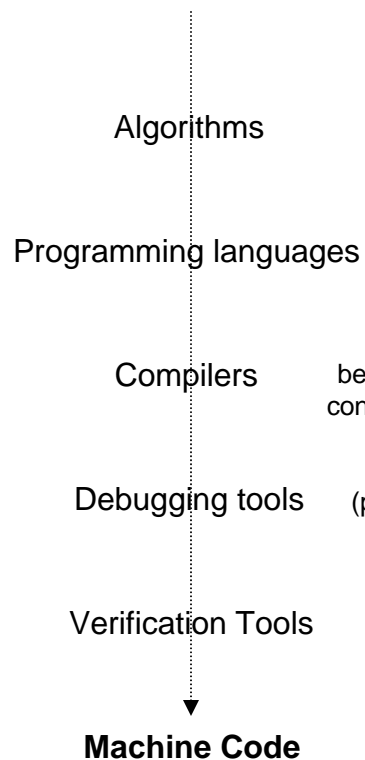


- Implementing and Administering Security in a Microsoft® Windows Server™ 2003 Network (70-299) : approx. 880 pages
- Securing Applications And Their Environments: WebSphere Application Server, Version 6. approx 1000 pages

But There Is No Theory of Configuration

Software Development

Specification: Constraints on Functions or Relations



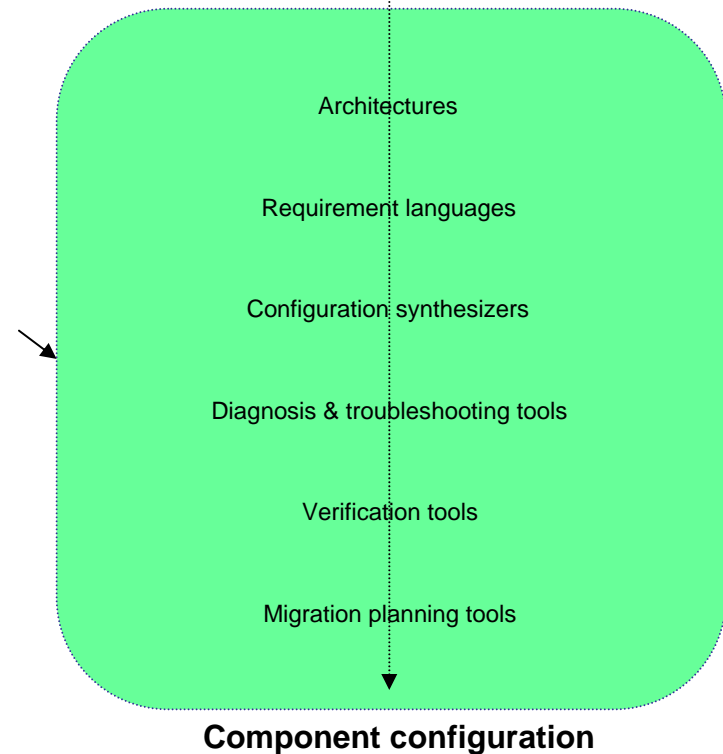
To bridge the gap between specification and machine code there are many tools as shown on the left.

However, to bridge a similar gap between specification and component configuration, there have been no tools.

We have developed (patented) implementations of these tools based upon "model-finding" and SAT solvers

Infrastructure Development

Specification: Constraints on Functionality, Security, Performance, Fault-tolerance



Extend Tools For Cooperative Architecture Vulnerability Detection & Mitigation

Thank You

Insider Threat Architecture

